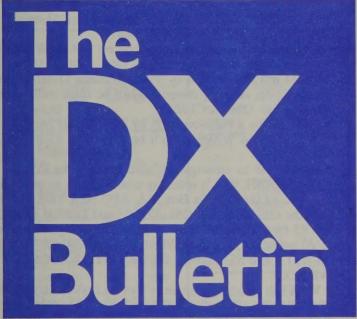
## DXpedition News October 4, 1991

Albania - ZA ZA1A had logged nearly 30,000 QSOs midway through their operation, which should finish up early next week. In addition to the previously announced frequencies, ZA1A has permission to operate on 1825, 1835, 1845, 3530, 3770, 7003, 7045, and the new bands, and VHF and UHF. Most US spots have been: 28020 kHz at 1500Z, 28345/16-1700Z, 21010/1200Z, 0130Z, 21245/1120Z, 1920Z, 14020/05-0700Z, 1430-1600Z, 14145/03-0400Z, 1520Z, 7003/00-0500Z, usually listening up. Despite advice given on the air, do not QSL direct to W6OAT; see Issue 606, page 2 for the correct QSL procedure.

Spratly Islands - 1S The XY@RR team, not content with their Burma and Vietnam operations, headed out to Spratly for a few days last week, as 1S@RR. QSL via Box 812, Sofia 1000, Bulgaria.

#### **Edited by Chod Harris VP2ML**



America's Premier Weekly Amateur Radio Publication

Albania - ZA ZA1HA and ZA1QA are being operated by the Hungarian team that attempted to activate Albania in July. They have licenses issued to the Quick Aid Foundation by the Albanian Ministry of Culture, Youth and Sport, Olympic Committee. Try 14040 and 14214 kHz, for the next month. QSL ZA1QA via the address in Issue 599, and ZA1HA to Globex Foundation, Box 49, 1311 Budapest, Hungary. The ARRL DXCC desk has not yet accepted the licenses.

Afghanistan - YA While YA2CW shows up occasionally, claiming to be Jackie F2CW, appearances have been mostly in SSB nets, rather than on 14001 kHz at 35 WPM. Don't QSL until the situation clears.

#### Shortly Noted

- Fiji 3D Several Japanese amateurs will operate from Fiji Oct. 4-9, all bands and modes. Look for 3D2HA (JJ1AEB), 3D2NV (JR1WLO), 3D2ST (JA5VBH), 3D2SY (JN1GAG), 3D2TR (JN1BMX), 3D2YI (JI1NJC), and 3D2YN (JR1LZK).
- 3D2IS Ichiro (7K1KLU) and wife 3D2KS Kumiko will be active from Fiji Oct. 15-23. QSL both calls to 7K1KLU.
- TL8CP is active until mid-November, with F6ESG as operator, and QSL route. Try 21190-200 kHz at 1600Z.
- The D2ACA operation has been postponed again, this time to Oct. 22. (DXNS.)
- Jersey GJ: DL2MDZ, DL8NBE, DL6NCY, and DL3NBL will operate /GJ Oct. 15-21, on all bands. QSL home calls.
- Guernsey GU: The same ops will be on /GU Oct. 22-31, including the CQWW SSB test. (DXNS.)
- HC7SK is Mats Gunnarsson SM7BUA, for the next three years. QSL to SM6DYK. (DXNS.)
- GD3CSA/P will be active from the Isle of Man (EU-116) Oct. 12-14, especially in the RSGB 10/15-meter test. Try 3750, 7070, 14280, 21320, and 28450 kHz. QSL via GØIEQ.
- HS1BV says he will be on 21300± kHz 14-2100Z Friday, Saturday, and Sunday. He'll give CW QSOs on request.
- WB2TQH/VP9 will be active in Radio Week in Bermuda Oct. 12-19, as the North American winner of the 1991 Bermuda contest. Usual SSB frequencies, 30 kHz up on CW, and at the low end of the new bands. QSL home call. Special QSL for the first 500 direct requests.
- GU4XGG/VS6 hopes to be active Oct. 18-Dec. 5 from Hong Kong. Try 14210, 21410, and 28570 kHz. (DXNS.)
- SSB Net check-ins: 14236 kHz: EA6SX; 14227: VK9LA 9M8LL HL9HH S21NQ KG6JJH; 14256: HL9HH 3XØHNU 7X2KT VP8CFM; 21335: 5V7DP S79KMB 4S7NMR AP2JZB 3B9FR UD85ØDR OD5MM; SV2ASP/a in Mt. Athos is often in the net weekends.
- Islands On The Air: I5DCE is operating from Corsica TK with week, on Sanguinaires (EU-104) or Cerbicales (EU-100). (LNDX.) K5MK, KA9KAI, HR2BDC, and HR2JAE will be /HR3 from Cayos Cochinos (NA-160) Oct. 11-13. Usual IOTA SSB frequencies (14260, 21260, and 28460 kHz), 20 kHz up on CW, and the new bands. QSL as directed. OX3KM is on Disco Island (NA-134); QSL F6FNU. SM7CRW is on (EU-037); try 14256 kHz at 2200Z. Spots: CO4QH (NA-056) 14259 0330Z; SM@DRB (EU-084) 14260 0450Z; VE7FEI (NA-075) 21260 1930Z; ED3IB (EU-154\_21260 1115Z; 4K4BEU (AS-005) 14025 0245Z.
- RTTY report: I5FLN says he will be in Tirana Oct. 4-7, operating RTTY. He'll leave the gear in Albania. SVØDV/9 is often on 14085 kHz at 0100Z. Spots: Z21GZ 21094 1430Z; ZC4AB 21086 1730Z; TY1PS 21085 1935Z.

# Propagation Forecast and Historical Data

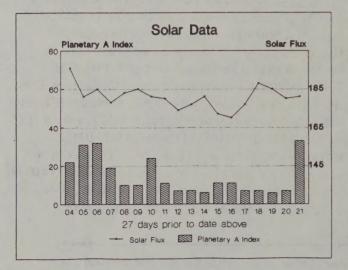
Day Forecast	27 Days Before	55 Days Before		
October 1991	Date Flux A K	Date Flux A K		
04 High Normal	09/07 164 13/16 3	08/09 150 12/19 2		
05 Low Normal	09/08 196 19/22 3	08/10 142 09/11 1		
06 Below Normal	09/09 181 29/31 3	08/11 139 15/20 2		
07 Below Normal	09/10 185 28/32 3	08/12 147 36/52 4		
08 High Normal	09/11 178 17/19 3	08/13 155 07/18 2		
09 High Normal	09/12 183 09/10 2	08/14 175 10/18 3		
10 High Normal	09/13 185 11/10 3	08/15 215 24/33 4		
11 Low Normal	09/14 181 21/24 3	08/16 264 17/20 3		
12 High Normal	09/15 180 08/11 2	08/17 271 19/22 3		
13 Above Normal	09/16 174 06/07 2	08/18 284 16/22 4		
14 Above Normal	09/17 177 07/07 2	08/19 290 36/53 2		
15 Above Normal	09/18 181 05/06 1	08/20 286 26/41 3		
16 High Normal	09/19 172 10/11 2	08/21 285 35/44 3		
17 High Normal	09/20 170 09/11 1	08/22 285 31/43 2		
Propagation Watch				

DXers experienced a mixed bag of propagation during the past week. The fortuitous combination of high solar activity and normal seasonal enhancement has meant good to excellent conditions on the higher bands. However, some flares and geomagnetic disturbances have prevented the bands from being consistently excellent.

In particular, Sunspot region 6853 has produced a couple of M-class (mid-sized) flares, causing shortwave fading on the sunlit side of the earth, and geomagnetic storms in higher latitudes. This has seriously hurt the polar paths, and the long paths that pass through polar latitudes. Low-latitude propagation has remained good. Region 6853, and the large, magnetically complex, Region 6850, may emit more band-disrupting flares this week.

Solar flux has deviated from its 27.5-day up-down cycle, and has leveled off in the 185 range, more than enough solar activity to keep 10 meters open during the day.

In the absence of major flares, look for good daytime openings on 10 and 12 meters, excellent signals on 15 and 17 meters, including some late at night, and excellent dawn and early evening openings on 20, including the westward long-path opening that begins a hour or so before local dawn. Low-band propagation will improve, but remain marginal; try 80 meters when the K index drops to 2 or less. Watch for solar flares.



#### **COWW SSB Contest Operations**

- V47KP will be a single-operator, all-band entry in both the SSB and the CW test, operated by, and QSLed via K2DOX.
- KG4QQ is a single-op, all-band entry by Tim Hulick W9OO. OSL to W9OO, not via the KG4 bureau.
- 9M6RO will be active Oct. 25-31, operated by Isao Numaguchi JH1ROJ. He'll be on the new bands, CW, SSB, and RTTY outside the test, and will accept skeds in advance. QSLs and skeds to home call: 4-9-31 Naka-Aoki, Kawaguchi, Saitama 332, Japan.
- P40W is John Crovelli's W2GD new Aruba call. He'll be in both SSB and CW test, single/all. Try 160 on the hour, 80 on the half hour, during his darkness (2230Z-1030Z). Nov. 19-29, outside the test, John will concentrate 5 kHz up on 30, 17, and 12 meters. OSL N2MM.
- 9P5E was the SSB contest call for Sig 9Q5EE, but the recent rioting in Kinshasa may hasten his planned late-October departure from Zaire. QSL 9P5E to K1RH.
- 9Y4H is a single-op, all-band entry by K6NA, in both the SSB and the CW test. QSL K6NA.
- KH9/WE5I and KH9/AD1S will be on from Wake Oct. 23-29, with CW and RTTY outside the test. QSL to OKDXA, Box 88, Wellston OK 74881.
- J43A will be the special Greek contest call of SV3AQR, 10-meter single band.
- CT3M will be operated by Ville Hiilesmaa OH2MM, in the single-op, all-band category. He'll be there well before the test, too. QSL to CT3BX.
- J80D will be a multi-op entry by W8KKF, KP2A, WA8LOW, and WX9E. They'll be there Oct. 23-28. QSL to W8KKF.
- D68RH will be an single-op, all-band entry by Rod Hallen 5Z4BH, who is soliciting contributions to help with the costs of the trip, via Box 55A, APO New York 09675 (not the QSL address). QSL 5Z4BH and D68RH to KE3A.
- /VE2 from Zone 2 will be several Woodbridge Wireless (VA) amateurs, including WD4KXB and KJ4VG. They'll be on RTTY and SSB outside the test, Oct. 23-29. QSL WD4KXB.
- V31X will be a multi-op entry by N6LL (V31XL), K6IPV (PV), KF6TC (DN), W6IRT, N6VI, N6DLU (PU), and KK6QF. QSL V31X to KF6TC. The operators will be there Oct. 22-30, 160-6 meters.
- ZF2JR will be another 40-meter single-band effort by Jim Rafferty N6RJ, trying to break the record he set last year. QSL home call.
- PJ9W will be back, shooting for the multi-multi record, this time with hired guns from the US to assist the Finns. Hardware includes a rotatable three-element, 160-meter loop on a 70-meter tower, a three-element 80-meter yagi, and a four-element 80-meter delta loop. QSL to Carl Ikaheimo OH6XY, Box 1, SF-21171, Korppoo, Finland.
- P40V will be an single-op, all-band entry by Carl Cook AI6V. QSL home call.
- PJ1B will be back as a multi-single after their successful multi-multi in 1990, as many of last years' ops join PJ9W. QSL K2SB.
- VP9AD will be a multi-multi from Bermuda; QSL W3HNK.

-more next week!-

### $B \cdot A \cdot N \cdot D \cdot P \cdot A \cdot S \cdot S$

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. \* = long path. P = packet. All "portable" calls listed with country of operation first, regardless of format used on the air.

S M T W T F S 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

			-11/2	
RTTY 3B9FR 4K2OIL 5V7DP BY4WNG HI3AB LZ2JG OD5ZZ RC2AZ SVØDV/9 TL8GM TU2YK UL7BJ Z21GZ ZC4AB	21090 14091 21099 14086 21087 21089 14090 14086 14088 14083 14089 28084 21084	2009 0353 2300 1236 2316 1333 2031 2341 0100 0353 2344 0220 1415 2040	22 18 21 18 21 18 19 22 16 14 22 23 21 19	FL PA OH MN OH FL PA MN MN OH OH
160 Me OA4ZV PY1RO VP5VEP	1833 1832 1833	0404 0450 0719	17 21 17	WA WA WA
80 Met 4K1AFM 4K2OIL 9K2IO YN/ SMØOIG Z21HS	3508 3507 3503 3507 3507	0355 0215 0204 0210 0400	23 24 22 24 24	IA IA NB IA
75 Met	ers 3798	0140	22	IA
40 Met 1SØRR 3XØHNU 4K2MAL 4K2OIL 4K2OIL 6W1QB 7P8EN 9K2ZZ FR5DX PZ1DV YN1CC ZA1HA ZA1QA ZK1OQ	Prs 7003 7005 7004 7002 7001 7001 7005 7004 7002 7000 7000 7000 7000 7000 7000	1412 2350 0120 1045 0330 1120 0450 0010 0215 0150 1020 1035 0220 0415 0435	27 23 24 21 22 23 27 22 23 23 27 22 23 27 22 23 27 22 23 27 22 23 25 27 22 25 27 27 22 25 27 27 27 27 27 27 27 27 27 27 27 27 27	CA GA GA IA GA IA GA IA GA GA GA
30 Met 4K1ADQ 6W6JX GB5JIM HBØ/ HB9NL	10101 10121 10102 10102	0135 0310 1159 0345	19	GA NY CT PA
HFØPOL S79MX SVØDV/9 VP2EXX ZA1QA ZS6QU	10106 10104 10105 10102 10114 10107	0500 0150 0015 0001 0138 0005	27 25 23 27	PA GA GA GA GA
20 Meter CW				

country of	opera	tion fi	rst,	reg
4J7GWA 4K1ADQ 4K1B 4S7CF * 4S7EF * 4S7PR * 4S7WP * 7Z1AB 9M2AX * 9V1AY 9V1JY * 9V1WW 9V1YC * BV2TA BY4WNG EA8AB FR5GG * FT4WC * HSØZAA * HZ1AB * JD1/ JH5EES JT1CS OX3AB OY3QN S21NQ	14031 14015 14004 14004 14028 14035 14002 14051 14008 14027 14024 14032 14032 14032 14032 14032 14032 14032 14032 14011 14017 14025 14014 Minami 14040 14016 14002	1110 0235 1430 1216 1120 1055 2247 1151 0341 1120 1051 0958 1405 1100 1017 1133 0241 1147 1000 1235 1010 Torish 0031 2216 1330 0002	26 27 20 24 23 23 16 22 19 23 24 24 24 22 26 26 22 25 iima 23 21 22 21	GA WAN GA NHA NHA NHA NHA NHA NHA NHA NHA NHA NH
S79MX TU2MA UAØK/	14051 14033 14018	0248 2317 0453	22 21 23	GA NY CA
UAØHAE UD85ØAI UF7FWW UI8AFI UL7RDW VK9WI VP8GAV VU2LX * VU2NI VU2NTA * YN1CC Z21AR Z21CA * ZA1QA	14012 14004 14004 14046 14020 14025 14009 14039 14002 14019 14027 14036 14035	0020 0119 0229 0130 1025 0107 1218 1140 1207 0428 1335 1310 0010	24 22 20 22 27 27 21 23 26 21 20 22 27 27	GA GA
20 Meter 7X2DG 9K2IC 9L1US 9N1MM BV2FB D44BC HSØZAA UJBRA UJBRA UM9TWA V73AX VP8CGK YA2CW Z22JE *			22 20 21 20 21 22 21 20 23 20 22 22 22 20	WA FL WI NY IL WA FL PA MA WI NH MI WA
17 Met 4K2MAL 6W6JX JT1CD	er CV 18070 18081 18072	0025 0920 1101	21 22 16	MO NJ NS

LZ2TW

S79MX

ZK10Q

18086 2355 22 GA 18078 0326 22 WV

18082 0925 22 NJ

UD85ØDC 18073 0317 23 WV

3C1EA

3XØHNU

4K1AFM

9M2AX

9Q5LN

24891 1254 21 NH

24894 1322 21 OH

24896 1707 16 NS

24962 1615 21 MA

AP2JZB 24937 1432 16 NS

24899 1529 22 IL

17 Meter SSB					
4S7EA	18117	2330	23	NY	
9V1XQ PZ1EL	18130 18150	2305 1745	23	NY	
VP8CFM	18150	0030	23	NY	
dE Mad	O	A /			
15 Met	21015	2031	23	FL	
3B9FR	21025	2015	17	CO	
3XØHNU	21009	0330	22	OH	
4K2MAL 9L1US	21001	1852 1720	21	CO	
9X5HG	21034	1736	21	GA	
A25GH A71CD	21013	2120 1457	22	MI	
BV2TA	21005	0150	23	GA	
BY5RA	21016	0100	21	MI	
BZ4RA FR5GG	21011	0226 1652	20	OR FL	
HI8A	21037	1805	21	GA	
HSØAC J28FO	21027	0405 2209	18	MN	
JT1BS	21025	0031	20	SC	
JY2FR OX3XR	21021	1428 1821	21	NH GA	
PZ1DY	21024	0325	21	WA	
SU1HV * TF3CW	21021	1403 2135	18	UT	
TF3EJ	21007	1749	22	GA	
TL8CP	21002	2014	23	CO	
TL8DJ UA8TAA	21045 21018	2135 0130	21	GA CA	
UD85ØAI	21015	0323	21	WA	
UH8AAQ UI8GBK	21026 21023	0455 0328	17 24	BC BC	
UL7JGX	21027	0200	24	BC	
UL7TJ Z21HS	21018	0135	24	BC	
ZA1HA	21005	1955	24	CA	
45 Mat	00	D			
15 Met 5H3OH/A	er 55 21260	2039	22	MN	
BV2BT	21234	1414	23	MD	
BY9GA FR5DX	21310 21279	1153	23	MD NJ	
HFØPOL	21305	2336	24	CA	
HH7PV	21285	0209	23	MA MD	
HS1ABU JT1AS	21270	1826 1259	23	MD	
JT1BY	21267	1144	22	NJ	
TF3XU TU2XR	21245 21287	1535 2252	21 22	IL. VA	
TZ6VV	21275	1636	22	MA	
UA8TAA UJ8XA	21213	0210	22	GA PA	
UJ9XWA	21241	0310	21	WA	
VU2TTC VU2XX	21278 21246	1731 1520	22	NJ	
Y88POL	21250	1517	23	MD	
ZA1QA	21300	1204	24	MD	
12 Meters					
3B8FE	24905	1654	16	NS	
2C1EA	24901	1054	04	NIL	

FR5FI S21NQ UI8DX VK6AZL VP8GAV YBØWR YN/ SMØOK ZD8WD	24898 24947 24900 24980 24906 24955 24906 3 24894 24901	1702 16 NS 1400 22 NH 1707 22 NY 1437 16 NS 1728 22 FL 1430 16 NS 1453 18 NH 2320 22 GA 1220 20 NH
10 Me 3B8FQ 3XØHNU 4U46UN 9L1US BZ4RA CN8ST EA8AB HBØ/ HB9NL	28009 28044 28019 28037 28021 28010 28013 28019	N 1935 22 CA 1820 21 NY 1206 21 GA 1415 22 CA 0200 25 WA 1450 21 CA 1303 22 GA 1455 22 NJ
KG4DD KG4DD KH4AF OX3XR TA2DA UI8DX VP8GAV Z21HS ZD7LZ ZD8WD ZK1OQ	28016 28014 28040 28021 28030 28005 28025 28020 28016 28023 28022	1429 20 UT 1801 23 FL 2034 22 WI 1304 22 MN 1405 23 CA 1159 23 MA 1307 22 NH 1415 21 NH 1445 20 NH 1320 22 GA 0214 25 WA
10 Me 3B8DB 3X1AU 4U46UN 5T5HH 5V7RF 7X2DG A26KH AP2JZB AP2NK C53GB C9TDM D44BC EA9IB EA9IB FK8CR HH2DY HH2LU KH6IRT * OD5SK OX3KM OY9JD RB5QF TA3PB T	ter \$5 38384 28530 28499 28575 28440 28535 28447 28508 28449 28470 28515 28487 28469 28478 28508 28485 28480 28493 28510 28493 28510 28493 28511 28538 28376 28484 28553 28447 285538 28376 28484 28553 28447 285538 28489 28511 28529 28889	1650 22 CA 1148 22 NY 1148 21 NJ 2305 21 VA 1155 21 NJ 1510 22 CA 1810 21 NJ 1251 22 NH 1331 22 NH 1100 22 NJ 1248 21 NH 1145 21 NJ 1255 21 NJ 1252 NA 1145 21 NJ 1520 22 CA 1635 25 TX 2328 20 WA 1145 22 NJ 1520 22 CA 1140 21 NJ 1530 22 NN 1843 18 CO 1538 22 CA 1140 21 NJ 1300 21 NJ 1300 21 NJ 1310 22 NH 2356 16 FL 2135 22 ND 1429 21 IL 1237 21 NH 1255 22 NJ 1300 22 NJ 1645 19 NJ 1300 22 NJ 1645 19 NJ 1532 21 CA

14020 1159 20 GA

14026 0537 23 UT

3DAØBK 14020 0426 20 CO

3B8FG

3C1EA

28505 0056 21 CA

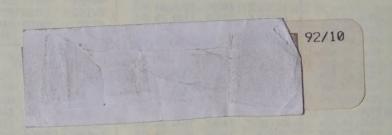
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#### Issue 608 - October 4, 1991

### **Current and Future DXpeditions**

#### (Changes and hot info in boldface.) **DXCC** Country Prefix Callsign Issue Dates Afghanistan YA2CW on now? 1608 Albania Now-Oct. 7 1604 ZA ZA1A ZA1HA/OA One Month 1608 Oct. 22-Nov. 1608 D2ACA Angola D2 C6A/WB2CHO Oct. 22-25 1606 Bahamas 1606/7 Now Bangladesh **S21NO** VP9/ WB2TOH Oct. 12-19 1608 Bermuda to mid-Nov. Central African Rep. TL8CP 1608 Fiii lots Oct. 4-9 1608 3D2IS/KS Oct. 15-23 1608 Oct. 22-31 1608 Guernsey GU DIS/GU Oct. 18-Dec. I608 Hong Kong VS6/ GU4XGG Isle of Man GD GD3CSA/p Oct. 12-14 1608 Oct. 15-21 1608 Jersey GJ DLs/GJ XU XU0JA? Oct. 10-16 1605 Kampuchea Liechtenstein HB0/HB9NL to Oct. 19 1606 LX/ PAs Oct. 2-9 1606 Luxembourg 9H 9H3s Sept. 28-Oct. 16 I605 Malta VP2M/AA5AU,G@AZT Sept. 30-Oct. 7 **Montserrat** San Felix Oct. 1602 CEØX XOØX Oct. 21-31 1605 South Cook Islands ZK1XC 1607 North Cooks ZK1 ZK10Q Now October 1606 **Oblasts** UH/UI Thailand HS HS1BV 21300/14-21Z 1608 1596 Togo 5V **5V7.JG** Now-Dec. Now A35EM 1606 Tonga **A3** A35XJ Sept. 27-Oct. 8 I606

#### **Operating Events and DX Gatherings**

operating Events and Dit Outherings				
Dates	Event	Refe	erence:	
Oct. 5-6	California QSO Party	Sept.	DX Mag	
Oct. 11	XU1SS DX Dinner		1607	
Oct. 12-13	West Texas DX Get To	gether	1607	
Oct. 12-13	VK/ZL/Oceania CW Co	ntest	CQ	
Oct. 26-27	CQWW SSB Contest		CQ	
Nov. 9	New England DX Conv	ention	1605	

### **Resident Amateurs on Regularly**

tour or		
Callsign	Freq.	UTC
UD85ØAI	20M CW	00-0300Z
D44BC	28480	12-1700Z
TT8SA	28525±	1300Z
FT4WC	14023±	12-1330Z
3C1EA	14024±	0530Z
4K2MAL	21003	19-2300Z
4K2MAL	7002±	0120Z
4K2OIL	7003±	0330Z
OX3XR	28020±	13-1700Z
VU2NI	20M CW	1140Z
TU2XR	21295±	2300Z
HBØ/HB9NL	28020	15-1700Z
9M2AX	14026	1130Z
9X5HG	21030±	1730-20Z
HZ1AB	14025	1230Z
6W1QB	7010	0500Z
S79MX	14051	0245Z
4K1ADQ	10101	0130Z
4S7WP	14028	23-0100Z
BV2TA	14010±	1000Z
HSØZAA	14020±	10-1200Z
UI8GBK	21025±	0330Z
	UD85ØAI D44BC TT8SA FT4WC 3C1EA 4K2MAL 4K2MAL 4K2OIL OX3XR VU2NI TU2XR HBØ/HB9NL 9M2AX 9X5HG HZ1AB 6W1QB S79MX 4K1ADQ 4S7WP BV2TA HSØZAA	Callsign         Freq.           UD850AI         20M CW           D44BC         28480           TT8SA         28525±           FT4WC         14023±           3C1EA         14024±           4K2MAL         21003           4K2MAL         7002±           4K2OIL         7003±           OX3XR         28020±           VU2NI         20M CW           TU2XR         21295±           HBØ/HB9NL         28020           9M2AX         14026           9X5HG         21030±           HZ1AB         14025           6W1QB         7010           S79MX         14051           4K1ADQ         10101           4S7WP         14028           BV2TA         14010±           HSØZAA         14020±

#### Contributors

This Issue of The DX Bulletin would not have been possible without the invaluable assistance of the following: KH6BZF, SESC, 5Z4BH, 7K1KLU, 9Q5EE, AAØCX, AB4PW, AC5K, DXNS, HAØLC, Japan DX News, JH1ROJ, K1HDO, K1RH, K1VWL, K2DOX, K2OLG, K3EST, K3ZPG, K4BAI, K4LNA, K5MK, K6IR, K6LEB, K6NA, K7EX, K7JA, K7JBQ, K7UOT, K8CV, K8OQL, K8TDJ, KA7T, KA9MRU, KØCVD, KDØZR, KF6TC, KØKLK, KM9J, KQ3S, KR7L, KSØM, KT7H, LNDX, N2EJQ, N4YKD, N5AHS, N5BBO, N8AGU, NØIMH, NT2X, NZ2Q, OH2BH, OPDX, S21NQ, VE1RJ, VE1YX, VE7COP, WØJRN, W1AM, W1AW, W1BFT, W2GD, W2VT, W2WW, W4QQ, W4VQ, W6UQF, W7AWA, W8KKF, W9HAO, W9RXJ, WAØRJY, WA1NPZ, WA2VKS, WA4NST, WA9AQE, WB2YQH, WB6EEQ, WB8YJF, WB8ZRL, WD4KXB, WD9GGY, WE5I, WS7W, WW6D, and WØZV. Many Thanks!